

The Chemical Age

Index to Volume XXII. January-June, 1930

A

Acetate and Acetate Products (Foreign Rights), 590
Acetate Products Corporation, 395
Acetone Production in Italy, 162
Aircraft Experiments, 590
Alexander, Sir William, Marriage of, 67
Aluminium, Norwegian Exports of, 160
Aluminium, Plating of, for Protection, 485
American Chemical Society, 27, 134, 172, 201
American Cyanamid Co., 461
American Institute of Chemical Engineers, 151
Ammonia, By-Product—An Economic Aspect, P. Parrish, 573, 608
Ammonia Production, Expansion of, Australian, 90
Ammonia, Synthetic, in Spain, 568
Ammonium Nitrate, Sensitisation of, by Nitrostarch, 532
Asphalt, Mastic, Manufacture and Uses of, 366
Association of British Chemical Manufacturers, 552
Atomic "Numbers," Replacing "Weights," 286
Austrian Tariff, Strong F.B.I. Resurrection, 7
Austrian Chemical Industry, 296

Authors—

Benn, Sir Ernest, J.P.: Unemployment and Work, 411, 439, 464, 489, 511, 538, 557, 576, 593
Burke, Major Denis J.: Solvents, Their Manufacture and Uses, 597
Collett, Dr. Emil: Impending Developments in the Fertiliser Industry, 3
Cone, W. E.: The Use of Coal Tar on Roads, 554; The Development of Tar Roads in Great Britain, 171
Curtis, F. J.: American Impressions of European Chemical Industry, 516
Dreaper, W. P.: Research and Industry, 5
Dyson, G. Malcolm: Chemistry and Chemotherapy of Iodine and its Derivatives, 362; 390, 416; Basic Industrial Minerals, No. IX, The Sands, 479
Eherton, S. L. B.: Cuba as a Market for Chemicals, 294
Furness, Rex: A General Survey of the Solvents Industry, 594; Chemical and Allied Industries of Lancashire, 298
Katz, S. H.: Industrial Gas Masks and Their Construction, 482
Ling, Professor Arthur: The Place of the Biochemist in Industry, 555
Macgregor, James: Design and Operation of Solvent Extraction Plant, 598
Marples, Norman C.: Monel Metal—Production, Properties and Applications, 263
Parrish, P.: By-Product Ammonia, An Economic Aspect, 573, 608
Parsons, Dr. Charles L.: The Laboratory, the Key to Progress, 384
Villiers, Dr. Francis J. de: Citrus By-Products Research—Orange Oil, 553
Avery, W. and T., Ltd.: Bicentenary Celebrations, 610

B

"Babcock" Low Temperature Plant, 556
Basic Industrial Minerals, No. IX—The Sands: G. Malcolm Dyson, 479
Basic Phosphate Slag, World Production and Trade in, 212
Bede Metal and Chemical Co., Ltd., 327
Beet Sugar Purification Plant at Colwick, 505
Benn Brothers, Ltd.: Jubilee, 42, 111, 113

Benzol, German, Production, 27
Benzol Producers' Conference, 529
Benzol Research Progress, 551
Benzol Standard Specifications, 22
Billingham, Steam and Power Plant at, 537
Biochemist in Industry, The Place of the; Professor Arthur Ling, 555
Birmingham: City Analyst's Report, 503
Bismuth Situation in Canada, The, 90
Bleaching, The History of, 465
Blount and Co., The Affairs of, 380
Boilers, Superpressure, 282

Bookman's Column—

Applied Inorganic Analysis (Hillebrand and Lundell), 149
Atoms, At Home Among the (Kendall), 149
Bearing Metals and Bearings (Corse), 392
Ceramic Industries, Encyclopedia of the (Searle), 392
Chemical Engineering, A Treatise on (Martin), 484
Coal Carbonisation (Wigington), 325
Cocoa and Chocolate Manufacture, Modern Methods of (Bywaters), 484
Colloidal State, The Chemistry of the (Ware), 368
Conductivity of Solutions and the Modern Dissociation Theory (Davies), 149
Everyday Chemistry (Partington), 325
Flotation, The Trend of, 51
Foreign Investments (Davies), 368
Gas, The Manufacture of (Hollings), 51
Gaseous Combustion at High Pressures (Bone, Newitt and Townsend), 51
Handbuch der Technologie der Öle und Fette (Heller), 9
Indian Materia Medica, The (Nadkarni), 9
Kakaobutter und ihre Verarbeitungen, Die (Finke), 9
Katalytische Reaktionen (Bruckner), 392
Kautschukwissenschaft, Handbuch der (Memmler), 392
Kunstlichen Harze, Die (Scheiber and Seindig), 368
Latex (Hauscr), 484
Leather Manufacture, The Chemistry of (Wilson), 484
Lime and Cement Some Writers on, 484
Microscopy, The Handbook of Chemical (Chamot and Mason), 392
Moisture on Chemical and Physical Changes, The Effects of (Smith), 9
Oil, The Problem of (Brunner), 149
Öle und Fette in der Textilindustrie, Die (Herbig), 9
Parachor and Valency, The (Sugden), 392
Photo-Processes in Gaseous and Liquid Systems (Griffith and McKeown), 9
Quantitative Analysis, Textbook of Elementary (Engelder), 368
Society of Chemical Industry, Annual Reports of the, on the Progress of Applied Chemistry, 392
Solvents (Durrans), 484
Soya Bean and the New Soya Flour (Ferree), 484
Technical Chemists' Handbook, 368
South American Handbook, 325
Tar and its Products, Standard Methods for Testing, 51

Borax Consolidated, Ltd., 178, 210
Bradford Dyers' Association, 297
Brewing Research, 216, 401
Brickmaking Improvements, 178, 200, 222
British Acetate Silk Corporation, 517
British Aluminium Co., Ltd., 327
British Association of Chemists, 221, 413, 418
British Chamber of Commerce Congress, 509
British Chemical and Dyestuffs Traders' Association, 435

British Chemical Plant Manufacturers' Association, 118
British Disinfectant Manufacturers' Association, 1
British Engineering Standards Association, 4, 28, 243, 405
British Export Society, 76
British Industries Fair, 2, 135, 138, 163, 165, 166, 194
British Malaya, Chemicals in, 507
British Standard Specifications, Index to, 122
Brotherton, Lord, on Chemical Industry in 1929, 25
Budget, Chemical Opinions on the, 369

C

Calcium Chloride and Sodium Chloride as a Protection for Concrete, Use of, 28
Canadian Chemical Plant, New, 380
Canadian Distillation Industries, 440
Canadian Market for Fertilisers, 295
Carbon, Activated, Production, 155
Carbon Blacks, Testing of, for Rubber; T. L. Garner, 536
Cardiff, New University Laboratories at, 490
Casale Ammonia Plants, World Capacity of, 155
Catalytic New Process of Water Sterilisation, 177
Catalytic Chemical Reactions under High Pressure, 288
Caustic Soda in Mysore, 28
Cellulose, Action of certain Acids on, 287
Cellulose and Metallisation, Papers on, 26
Cellulose, Films and Fibres Derived from, 93
Cellulose, Synthetic, 65
Cement Clinker Setting Retarders, 486
Cellulose and Metallurgical Corporation, 142, 394, 604
Chemical Engineering Group, 47, 96, 150, 240, 368, 456
Chemical Headquarters, A Scheme for a London, 98, 283, 285, 383
Chemical, Heavy, Manufacture: Tour of Chemical and Metallurgical Corporation's Works, 604
Chemical Industry in Overseas Markets, 506
Chemical Plant and Engineering, 68
Chemical Society, 285, 321
Chemical Society, A Silver Mace for the, 43, 67, 95
Chemical Triumphs of 1929, 27
Chemist and Engineer, Relations of, 50
"Chemistry House," Scheme, 98, 283, 285, 383
Chemists and Medical Patents, 560
Chemists' Club, New York, 8
Chlorine in Flour, 346
Chlorine Production in Russia, 8, 499
Chromium Plating, 94
Chrome Plating Draft Regulations, 418
Citrus By-products Research: Orange Oil: Dr. Francis J. de Villiers, 553
Clays, Fire, Northern Ontario, 262
Cleaning of Acid Stills and Tanks, 344
Coal, Causes of Spontaneous Heating of, 218
Coal Cleaning Problems, 246
Coal Oil Developments in Australia, 68
Coal Resources, National, Survey of, 255
Coal Saving on Boiler Plants, 558
Coal Tar, The Use of, on Roads; W. E. Cone, 554
Coal Tar Products from Canada and Australia, 8
Colour Industry, Future of the, 324

Commercial Intelligence—

Crescent Chemical Co.: Meeting of Creditors, 103
Matthews and Wilson: Meeting of Creditors, 452
Commonwealth Fund Fellowship: Awards, 488
Concrete, Protecting, Against Frost, 28

Condiment, Chemical, Industry in China, 68

Correspondence—

Australian Inquiry, An, 383
Beet Sugar Factories and River Pollution (Gomm), 143
Chemical Practitioners and Advertising (Rhodes), 551
Chemical Practitioners and Advertising (Perrinax), 558
Chemical Trade Not Depressed (I.C.I.), 26
Chemistry and War (Brightman), 143
Chemistry and War (Rhodes), 177
Chemistry House Scheme (Rhodes), 383
"Confidence" A Matter of, 267
Fire at Dudley Port, A (Woodcock), 96
Germany as a Market (Mills), 326
Income Tax Problems (Fairbrother), 7
"Industry, for the Betterment of," (Essen), 558
Patent Law Reform (Jephcott), 361
Patent Law Reform (Dyson), 383
Publicity and the Chemical Profession (Rhodes), 77
Publicity and the Chemical Profession (Dyson), 97
Rationalising the Chemist (Rhodes), 7
Refrigerant, A New (Hemming), 531
Research as a Career (Rhodes), 96
"Sea Coal and Soot" (Muir and Son), 531

Corrosion of Lead in Buildings, Prevention of, 97
Corrosion of Tin-plate by Foodstuffs, 537
Crystals, The Formation and Growth of, 242
Cuba as a Market for Chemicals: S. L. B. Eherton, 294
Cyclohexanol Series, The, 601

D

Dead Sea Salts Concession, 587
Diaz Compounds, Coupling of, with 2-Methoxy-3-Naphthol Acid, 287
Diesel Engines for Road Transport, 237
Directory of British Fine Chemicals, 235
Disarmament, Chemical, Dr. Herbert Levinstein on, 116
Disinfectants and Insecticides, Exports of British, 460
Distillation, Hard Wood, Industry in Europe, 176
Dorr, Dr. J. V. N., Medal for, 95
Duckham Report on Transport, The, 21
Dunston Low-Temperature Carbonisation Plant, The, 98
Dye Exports, Increase in Swiss, 177
Dyestuffs Act, Government and the, 528
Dyestuffs, Synthetic, United Kingdom Production of, in 1929, 393

Dyestuffs Supplement—

Accelerator Patent Extended, An, 9, 14
Acetone, Spanish Production of, 8
Alizarine Dyestuffs in Lake Condition upon Cotton, 29
American Colour Fashions, 34
America's Perkin Medalist, 9
American Dyestuff Industry, 14
Arsenic in Food Colours, 15
Apparatus, A New pH, 2
Azole Colours for Printing, 2
Azothine Azo Dyes, Studies in, 23
Basic Intermediates for Dyestuffs: The Naphthol Sulphonic Acids, No. XXXIII, 13; XXXIV, 30; XXXV, 35
Bleachers' Association (Fina) Dividend, 24

Dyestuffs Supplement—continued

- Bleaching Process, New, 34
 Bradford Dyers' Association, 15
 British Colour Council, 9
 British Dyestuffs Industry, Position of the, Lord Melchett, 29
 British Tintex and Dyes, 26
 Cellulose Acetate Process, New, 34
 Cherry Dyeing, Effect of Hydrogen-ion Concentration in, R. N. Jeffrey and W. V. Cruess, 6
 Colour Faults in Finished Goods, Diagnosis of, F. L. Goodall, 17
 Colours, New, 1, 9, 15, 28
 Colour Lakes for the United States, 10
 Colour Specifying, Exact, Now Possible, 10
 Colours, What are the Primary? 10
 Dyeing of Viscose and Cotton in Mixed Weaves, Simultaneous Uniform, 36
 Dyeing Still an Art, 10
 Dyes and their Application: Recent Technical Progress; L. J. Hooley, 18, 25, 31, 37
 Dyes, Fastness of, to Perspiration, 16
 Dyeing and Dyes, Fast, 1
 Dyes and Dyeing: Technical Developments in 1929; L. J. Hooley, 3, 11
 Dyestuff Reviews, 2, 9, 20, 29, 33
 Dyestuffs Patent Action, The, 1, 21, 27
 Fibres, Esterified, The Commercial Application of, A. E. Woodhead, 7
 German Dyestuff Trust's Affairs, 33
 German Sales Propaganda, 15
 I.C.I. Dyestuffs Group, 9
 India's Dyestuff Imports, 28
 Italian Dye Corporation, 38
 Lord Melchett and the Dyestuffs Industry, 27
 Mullin, Dr. C. E.: Visit to Europe, 33
 Naphthol AS Dyes on Viscose, 5
 Reproduction Dyestuffs Profits, 28
 Scientific Instruments, Objections to, 10
 Silverwood, Arthur: Presentation of Gold Medal to, 33
 Society of Dyers and Colourists, 16
 Solazol Series, A New, 27
 Sophora Japonica, 33
 Sundour Fabrics Developments, 10
 Textile Laboratory Equipment, 34
 U.S.A. Colours for Spring, 2
 Vat Colours on Loose Wool, 8
 Woollen and Worsted Research, 19

E**Editorial Articles—**

- Advertising, Industry's Debt to, 592
 After-Dinner Chemistry, 381
 Annual Spring Issue, Our, 283
 Atmospheric Pollution, 503
 Benn Brothers' Jubilee, 42, 92, 111, 477
 Benzol Producers' Conference, 529
 Benzol Research Progress, 551
 Benzol Standard Specifications, 22
 Billingham Development, 340
 Bitten Line, The, 504
 British Industries Fair, 2, 135, 191, 213
 Brotherton's Lord, Great Gift, 539, 592
 Brotherton, Lord: Messel Lecturer, 41
 Budget, The, 359
 Cellulose, Synthetic, 65
 Chemical Authority, The Need of a, 552
 Chemical Engineers at Tokio, 529
 Chemical Engineers, The Work of the, 454
 Chemical Headquarters Scheme, A, 283
 Chemical Standardisation, 284, 552
 Chemicals for World Markets, 163
 "Chemist," The Title, 382
 Chemistry and War, 111, 136
 "City," Cleaning Up the, 91
 Combine, The Inevitable, 236
 "Complot" Chemist, The, 260
 Disinfectant Manufacturers' Association, A, 1
 Duckham Report on Transport, The, 21
 Duckham's, Sir Arthur, Two Points, 66
 Dyestuffs Act, The Future of the, 477
 Dyestuffs Judgment to Stand, The, 431
 Dyestuffs Organisation, 112
 Dyestuffs Progress, 320
 Exports, Chemical, A Boom in, 41
 Faraday Centenary Celebrations, 530
 Fertilisers, Imported, for India, 260
 Fine Chemicals, Progress in, 235
 Fire-proofing, The Chemistry of, 410
 Food, Water and Air, 503
 German Dyestuffs Propaganda, 214
 Germany Returns to the World, 364
 Hartley, Sir Harold, Appointment, 438
 Haulage, Sir Harold, Appointment, 438

Editorial Articles—continued.

- Industry Lagging Behind Science, 135
 I.C.I. Judgment for, 285
 Institute of Chemistry, The Presidency of the, 192
 Institution of Chemical Engineers in Conference, 319
 Iron Happy, Making, 453
 Laboratory, On the Modern, 381
 Levisstein's, Dr., Speeches, 92
 Liverpool Salt for India, 164
 Medical Patents, 431, 591
 Mischievous Chemical Reports, 21
 National Certificates in Chemistry, 66
 Nitrate Merger, The, 432
 Nitrogen Developments, 2
 "Octozone," 572
 Ostend Nitrogen Conference, 571
 Overseas Trade Council, An, 339
 Patent Law Reform, On, 320
 Patent Office Warning, A, 236
 Plant, Why Not Foreign, 112
 Potash from Polyhalite, 572
 Ruttan, Dr. The Late, 213
 Sea Coal and Soot, 478
 Science and Industry, 339
 Scientist Misunderstood, A, 1
 Signposts in Chemical Industry, 191
 "Six Hours," 592
 Solvents Industry, The, 591
 Steatite and Porcelain Products, Ltd., 453
 Sulphur Independence for Canada, 214
 Taxation, Relief from Crushing, 42
 Trade, Chemical Overseas, 164, 259, 359, 571
 Trade, Optimism in, 432
 Trade: The Best Year Since the War, 65
 Unemployment, Wrong Views on, 259
 War, The Chemistry of, 319
 Wash Oils for Benzol Recovery, 551
 Water Purification Problems, 504
 Electrodeposits, The Hardness of, 268
 Electroplaters' and Depositors' Technical Society, 88, 268, 483
 Electro-Plating Research, 121
 Ethyl Petrol, The Use of, 347
 European Chemical Industry, American Impressions of, F. J. Curtis, 516

F

- Fading, The Problem of, 94
 Fats, Structure of, and its Bearing on their Utilisation (Hilditch), 238
 Fauser Ammonia Process, World Application of, 476
 Fellowships, Research, in Metallurgy and Mining, 53
 Fertiliser Industry, Impending Developments in the, Dr. Emil Collett, 3
 Fertiliser, New German, 33
 Fertiliser Production, Norske Hydro, 269
 Fertiliser Propaganda, Ingenious French, 37
 Fertilisers, Czechoslovak Consumption of, 427
 Fertilisers from Coke-Oven Gas, 190
 Filter, Continuous Operating Suction-Column, 18
 Fine Chemicals, New Discoveries in, 241
 Finsbury Technical College, 219
 Fire-proofing, The Chemistry of, 410
 Fires in Steamship Bunker and Cargo Coal, 218
 Fluorspar, The Uses of, 547
 Formic Acid, Catalytic Synthesis of, 282
 Freeth, Major F. A., Honour for, 179
 French Fertiliser Production 1929, 175
 Films and Fibres Derived from Cellulose, 93
 Fuel, Pulverised, Factors in the Use of, 322
 Fuel Research in Canada, 58

G

- Gas Charges Fully Standardised, 325
 Gases, Flue, The Problem of, 148
 Gas, H.C.N., Death from, 28
 Gas Light and Coke Company, 149
 Gas Masks, Industrial, and their Construction; S. H. Katz, 482
 German Glass Technologists, 539
 German Road Tar Committee, 171
 Graesser-Monsanto Chemical Works Dinner, 17

H

- Haber, Professor Fritz, 438
 Hard Wood Distillation Industry in Europe, 176
 Hartley, Sir Harold, 121, 136, 150, 438
 Heat Treatment, Town's Gas for, 457

- Helium Production at Amarillo, 46
 Helium Repurification, 151
 Honours List, New Year, 9
 Hull Chemical and Engineering Society, 263

Illustrations—

- Beet Sugar Purification Plant at Colwick, 505
 Billingham Works of I.C.I., 137
 Brame, Professor J. S. S., 9
 British Industries Fair, Chemical Stands at the, 165, 193
 Clayton, Dr. G. C., 223
 Dorr, Dr. J. V. N., 93
 Dunn, Dr. J. T., 247
 Hartley, Sir Harold, 150
 "John Benn" Ferry Boat, 533
 LeMaistre, Frederic J., 151
 Plant, Chemical, Examples of British, 69
 Pope, Sir W. J., 201
 Ruttan, Dr. R. F., 215
 Seligman, Dr. R., 243
 Thorpe, Professor J. F., 285

- Imperial Chemical Industries, Ltd., 5, 24, 52, 67, 103, 192, 222, 297, 396, 394, 409, 414, 469, 488
 Imperial Institute Research, 406
 Indian Chemical Notes, 51, 147, 270, 419, 509
 India, Imported Fertilisers for, 260
 Indian Researches, Some, 83
 Induction Furnaces for Laboratories, 491
 Industrial Welfare Society, 221
 Institute of Chemistry, 23, 98, 223, 243, 260, 491
 Institute of Fuel, 142, 148, 246, 373, 457, 559
 Institute of Journalists' Luncheon to Sir Ernest Benn, 534
 Institute of Metals, 391, 436
 Institute of Physics, 514
 Institution of Chemical Engineers, 18, 65, 93, 242, 319, 326, 341, 529
 Institution of Petroleum Technologists, 237
 International Union of Pure and Applied Chemistry, 164
 Insulation of Heated and Cooled Surfaces, 240
 Iodine and its Derivatives, Chemistry and Chemotherapy of; G. Malcolm Dyson, 362, 390, 416
 Ironwork in Buildings, The Protection of, 266

J

- Japan, Chemical Industry in, 174
 Japanese Society of Chemical Industry, 534
 John Cass Technical Institute, 238

K

- Kelp, Norwegian Production of, 63

L

- Laboratory Bench Design; Norman Evers and Thomas McLachlan, 534
 Laboratory, The; Dr. Charles L. Parsons, 384
 Laboratory Furnishing and Equipment, 386
 Lancashire Chemical Plant and Machinery, 300
 Lancashire, Chemical and Allied Industries of, Rex Furness, 298
 Lactic Acid, French Trade in, 64
 Lead, Prevention of Corrosion of, in Buildings, 97
 Leeds University Library, 620

Legal Intelligence—

- Burrins Express Service v. Dearborn Chemical Co., Ltd., 483
 East London Manufacturing Co. v. A. J. Cadman and E. Cadman, 290
 Haigh, W. G., v. Hailwood and Ackroyd, Ltd., 326
 Imperial Chemical Industries: Share Acquisition, 539, 559, 609
 I.C.I. v. I.G., 43, 73, 235, 237, 261, 325, 431
 Jessop and Co. v. Associated Drugs and Chemicals, Ltd., 78
 Lagunas Nitrate Co., Ltd., Reduction of Capital, 517
 Lever Brothers, Ltd., and Niger Co., Ltd., v. Bell and Snelling, 297, 325, 450, 517, 559

Legal Intelligence—continued

- Marb-Cote Distributing Corporation v. Coleman Goodman, Mrs. Goodman and Sidney Goodman, 369
 May and Baker, Ltd., v. Premier Gas Marine Co., Ltd., 358
 Nicol, Douglas U. v. Robert Brownlow, 262
 Nitric Acid Injuries, 306
 Pharmaceutical Society of Great Britain v. Arcade (Brixton) Pharmacy, Ltd., 327
 Roburite and Ammorol, Ltd.: Petition by Nobel Industries, Ltd., to Acquire Shares, 289
 West Slip China Stone Co., Ltd.: Assessment Reduced, 318
 Weyenburgh, Emile Van, v. British Acetate Silk Corporation, Ltd., 103
 Leeds University, New Chemical Buildings at, 38
 Lithopone Industry of Belgium and Netherlands, 187
 L.M.S. Research Advisory Committee, 258
 Low Temperature Carbonisation, 134, 556

M

- Marketing Methods Overseas, British, 290
 Medical Patents, 560, 579
 Medical Patents and Chemotherapeutic Research, 433
 Mellon Institute of Industrial Research, 395, 559
 Merchandise Marks Act, 18
 Methane in Commercial Quantity, 77
 Methanol, Synthetic, French Production of, 212
 Methanol, Synthetic, Italian Production of, 24

Metallurgical Section—

- Alkaline Cyanides, The Formation of, in the Blast Furnace; W. McConachie, 21
 Alloy, A Septenary, 10
 Alloy Formation on Electrodeposition, 10
 Alloys of Iron with Silicon, 29
 Aluminium Bronzes, 3
 Arnold, The Late Professor J. O., 23
 Aston Wrought Iron Process, 24
 Beryllium Alloys, 3
 Beryllium, Commercial Uses and Production Costs of, 15
 Beryllium in Canada, 36
 Blast Furnace Problems, 23
 Caesium, Rubidium and Lithium; R. M. Santmyers, 27
 Cobalt Production, 30
 Competition between Metals, 3
 Copper Alloys Containing Silicon, 1
 Copper in Converter Slag, The Form of; F. S. Warrman and W. T. Boyer, 16
 Copper, The Hydrometallurgy of, 35
 Copper, The Welding of, 30, 36
 Corrosion of Oil Storage Tanks, 11
 Corrosion Research, 24
 Electrochemistry in America, 35
 Electrodeposition, Recent Progress in, 7
 Electrolytic Lead and Zinc, 35
 Empire Mining and Metallurgical Congress, 3
 Foundry Materials, Analysis of, 3
 Hydro-electrometallurgy, A Symposium on, 35
 Impurities on Metal Deposits, Effect of, 35
 Iron and Steel Institute, 24, 29
 Iron and Steel Statistics, 23
 Iron Oxide in Liquid Steel, Determining, 17
 Mannaberg, The late Dr., 4
 Mercury, Prize for New Uses of, 30
 Metallurgical Research during 1929, 33
 Molybdenite Mining in Quebec, 17
 Mond Nickel Co., 5
 Mond Nickel Precious Metal Refinery, 10
 National Lead Co., Ltd., Formation of, the, 18
 Non-Ferrous Metals Research, 36
 Ontario Copper and Nickel Production, 24
 Ontario Nickel-Copper Industry in 1929, 18
 Pickling in Iron and Steel Industries, 28
 Protective Coatings for Iron and Steel, 8
 Radium Ore, Possible Canadian Production of, 4
 Rails, Effect of Service on Endurance Properties of, 10
 Rationalisation and Amalgamation, 11
 Rhenium Metal and its Compounds, 22

Metals — *continued*

See Metals, in the list and, 24
Sintering Materials for Blast Furnace
Charges, 18
Soil Corrosion of Pipe Materials, 2
Solders and Soldered Joints, Research
on Soft, 29
Steel, Decarburization of, 28
Steel in Ancient Egypt, 29
Steel Industries Combine, 5
Tin-Base White Metal "B," 30
Tin Restriction Scheme, 11
Tin Situation in Canada, 4
U.S. Metallurgists, Distinctions for, 24
X-Ray Distinction between Metals
and Alloys, 10
Zinc Industry in Italy, 18

Milling and Pulverising Methods
Modern, 265

Minerals Research, Progress in, 53

Monel Metal: Production, Properties
and Applications; Norman C.
Marples, 263

Mould, Damage to Paintings by, 6

Mounting of Textile Fibre Sections, 287

N

Naphthalene Distillation Plant Ex-
plosion, 108

National Benzole Association, 22

Netherlands Imports of Fertilisers, 550

Nichols Medal Award, 172

Nickel, British, Standard for, 405

Nitrate, Chilean, Production, 415

Nitrate Mergers, 13, 415, 550

Nitric Acid Plant, A New, 160

Nitrocellulose Industry, Problems in the,
168

Nitrocellulose Lacquers, 222

Nitrogen Developments, 2

Nitrogen Fixation in the Netherlands,
188

Nitrogen, French Government's Pro-
duction of, 188

Nitrogen, German, Production, Progress
of, 179

Nobel Laureates Honoured, 122

O

Obituary

Anderson, F., 611
Arnall, Dr. Francis, 147
Arnold, Lawrence John, 307
Austin, H. C., 10
Baty, G. N., 224
Bickerdike, W. E., 248
Bowen, Samuel Bowen, 611
Bryson, James, 79
Callendar, Professor Hugh Long-
bourne, 99
Claisen, Professor Ludwig, 99
Cockburn, Charles T., 180
Cooper, F. J., 561
Cooper-Key, Major Sir Aston, 518
Davies, Herbert E., 328
Duggett, Professor Charles S., 123
Duchrasen, H., 561
Dutton, Frederick Victor, 202
Ferranti, Dr. S. Z., de, 54
Gillis, John D., 601
Greiff, Robert William de, 463
Hake, Dr. Henry Wilson, 79
Harvey, Sir Robert, 271
Hillidge, Richard, 328
Jenkins, Alfred T., 10
Jones, J., 271
Leggat, Francis, 79
McCormick, Sir William Symington,
328
McKenna, Charles F., 492
MacGillchrist, John, 224
Mavliankar, K. B., 123
Michelson, Professor A. A., 29
Newall, F. Stirling, 611
Orton, Professor Kennedy, 264
Phillippi, Dr. Richard, 123
Pinchin, Ernest A., 10
Plieninger, Theodor, Dr., 79
Rutman, Professor T. B., 94
Ruttan, Dr. R. F., 213, 215
Sinclair, Colonel Alex., 202
Smith, Frederick C., 328
Sprout, William, 540
Swinton, Alan Campbell, 202
Tennant, James, 611
Vickers, B. V., 54
Wardrop, Arthur W., 10
Warner, Sir Frank, 99
Watt, David, 611
Wuth, Dr. Berthold, 123

Oetozone, 572
Oil and Colour Chemists' Association,
46, 168, 170, 265, 266, 412, 460
Oil, Castor, The Splitting of, 220
Oil from Seed, Extracting, 346
Oil, Oxidation Tests for, 418
Oils, Drying, The Polymerisation of, 46
Oils, Paint and Varnish, Drying of, 52
Ontario Research Laboratories, 7
Ostend Nitrogen Conference, 571
Overseas Markets, Chemical Industry in,
164, 259, 359, 506, 571
Oxide Purification, 275

P

Paintings, Damage to, by Mould, 6
Paint and Varnish Research Station, 289
Paints and Enamels, Mixing, Grinding
and Refining of, 170
Parliament, Chemical Matters in, 9,
98, 122, 151, 179, 201, 223, 247, 270,
306, 327, 385, 440, 560, 624
Patent Law and the Dyer, 361
Patent Law Reform Proposals, 323
Patent Office Warning, A, 236
Patents, A Record Year for, 517
Patents, Chemical Selection, Mr. Justice
Maughan on, 261
Patents, Medical, Chemists and, 560
Patents, "Restored" German, 528

Patent Specifications

Absorption of Olefines by Acids, 249
Acetaldehyde and Acetic Acid, 12
Acetaldehyde from Ethyl Alcohol, 350
Acetic Acid, 542
Acids and Esters, Organic, 225
Alcohols, 203, 562
Alcohols, Aldehydes, and Ketones, 493
Aldehyde-Amine Condensation Pro-
ducts, 467
Allylic Lactones, 203
Aliphatic and Cycloaliphatic Satur-
ated Sulphonic Acids, 57
Alkali Fluorides, 612
Alkali Metal Compounds, Recovering,
31
Alumina and Potassium Sulphate, 350
Aluminium Chloride, 398
Amines, 581, 613
Ammonium Formate, Solid, 182
Ammonium Phosphates, 153
Ammonium Sulphate, 542
Anthracene Derivatives, 519
Antimony Salts, Complex, 442
Apparatus for Use with Ammonia, 399
Aromatic Amines, 612
Aromatic Amino-Sulphochlorides, 443
Aromatic Hydrocarbons, 563
Aromatic Nitriles, Manufacture of, 442
Aryl-Sulphonic Acid Amides, 371
Barbituric Acids, Solutions of, 421
Bases for Waterfast Varnishes and
Lacquers, 57
Benzanthrone Derivatives, 101, 153
Borax, 442
Boron Trifluoride, 272
Borneol and Isoborneol, 31
1:3-Butylene Glycol, 582
Butylene from Ethylene, 443
Calcium Formate, 154
Calcium Hypochlorite, 12, 57, 203
Calcium Nitrate, 372
Calcium Oxide and Sulphur Dioxide,
612
Carbon, 520, 562
Carbon Black, 31, 371, 494
Carbon Monoxide, 443
Carbonaceous Materials, Heat Treat-
ment of, 372
Carboxylic Acid Esters of Glycols, 81
Carboxylic Acids, 81, 371
Catalytic Apparatus, 329, 350, 372,
442, 494, 520
Catalytic Processes, 249, 309
Cellulose Acetate, 181, 371
Cellulose Derivatives, 493
Cellulose Esters, 124, 225, 421
Cellulose Ethers, 56
Chlorinated Naphthalene Compounds,
330
Clay, Treating, 467
Coating Compositions, 124
Colloid Mills, 250
Colour Lakes, 273
Condensation of Carbazoles with Ole-
fines, 563
Condensation of Organic Compounds
with Olefines, 541
Condensation of Poly Nuclear Com-
pounds with Olefines, 182, 467
Condensation Products of Urea,
Thiourea, etc., with Formaldehyde,
562
Condensation Reactions with Non-
Aromatic Hydrocarbons, 541
Copper Sulphate, 182
Crystallising Salts, 399, 421
Cupric Cyanogen Compounds, 250

Patent Specifications—continued

Cyanamides, 442
Dehydration, 542
Dehydrating Salts, 542
Destructive Hydrogenation, 125, 442,
443, 494, 520
Detinning Scrap, 582
Dispersions Containing Copper, 12
Distilling Apparatus, 82
Distilling Tar to Obtain Complex
Hydrocarbons and Wax, 421
Drugs, Synthetic, 57, 81, 272, 350,
422, 442, 443, 493, 582, 612
Dyeing Cellulose Esters, 541
Dyeing Processes, 203, 329, 330
Dyes and Intermediates, 12, 31, 32,
37, 82, 101, 124, 125, 154, 181, 182,
225, 249, 250, 272, 273, 308, 309,
350, 371, 372, 398, 399, 421, 422,
442, 443, 467, 493, 494, 519, 520,
541, 542, 562, 563, 581, 612, 613
Electrolysis of Alkali Chlorides, 330
Emulsions, Making, and Treating
Latex, 329
Esters, 350, 612
Esters of Polyvalent Alcohols and
Carbohydrates, 520
Ether Esters, 562
Ethylene, 349, 350, 400
Exothermic Gas Reactions, 308
Explosives, 612
Fatty Acids, 31, 124
Fertilisers, 272, 493
Fractional Distillation, 308
Gas Manufacture, 181
Gases, Absorption of Sulphurous, 13
Gases, Purifying, 81, 204, 582
Gases, Removing Ammonia from, 82
Gases, Treating, with Solids and
Liquids, 349
Gases, Treating, with Arc Discharges,
124
Gas Mixtures, Separating Unsaturated
Hydrocarbons from, 421
Glass Manufacture, 613
Glycol Ethers, 82
High Pressure Reaction Vessels,
400
Hydrocarbons, 32, 101, 102, 124, 250,
308, 309, 371, 372, 398, 541, 581
Hydrocyanic Acid, 422
Hydrogen, 153, 308, 582
Hydrogen and Carbon Monoxide,
Obtaining from Gaseous Hydro-
carbons, 250
Hydrogenation of Carbonaceous Mate-
rial, 153
Hydrogenation, Destructive, 154, 330,
422, 541
Hydroxy Carboxylic Acid Esters,
399
Hydroxy-Sulphamic Acids, 582
India Rubber, Preserving, 57, 203, 273,
308, 442, 582
Indoxyls and Indoles, 467
Insecticides, Disinfectants, 101
Isocollols, Organic, Modifying the
Physical Properties of, 57
Isopropyl Alcohol, Catalytic Produc-
tion of, 529
Latex, Concentrating, 309
Latex, Treating, 329
Leuco-Indigo, 582
Liquids, Distilling and Evaporating,
56
Liquids, Treating, 12
Litharge and Red Lead, 182
Lithopone, 399
Lixivating, 349
Manganese Ores, Treating, 81
Manures, 124
Menthane, 581
Menthol, 398
Metal Caramates, Alkaline Earth
Cyanogen Compounds and Urea,
582
Metal Carbonyls, 181, 203, 309,
581
Metallic Oxides, 31, 273
Metals, Extracting, 249
Methoxy Sulphocyanides, 422
Mordants, 373
Naphthalene Derivatives, 329
Nitrates and Nitrites, 182
Nitric Acid, 57, 494, 612
Nitric Oxide, 308
Nitriles, 251
Nitrogen Peroxide, 31, 582
Nitrogen Oxides, 308
Nitrous Oxide, 398
Oils, Chlorinated Train, 250
Oils, Cracking, 153, 273
Oils, Extracting, 153, 249
Oils, Fatty, Treating, 56
Oils, Lubricating, 421
Oils, Purifying, 249, 250, 398, 542,
612
Oils, Vulcanising, 56
Olefines, 125
Ores, Treating Tin, 330
Ores, Treating Zinc, 398
Organic Acids, 329
Organic Compounds, 467

Patent Specifications—continued

Organic Nitrogen and Sulphur Com-
pounds, 493
Organic Phosphorus Compounds, 442
Organo-Mercury Compounds, 372, 421
Oxidation of Hydrocarbons, 562
Oxidation of Organic Compounds of
High Molecular Weight, 329
Oxygen Compounds and Catalysts,
Organic, 225
Paints and Coating Compositions, 125
Paraffin Hydrocarbons, Oxidation Pro-
ducts of, 308
Perfumes, Synthetic, 400
Phenyl Formaldehyde Condensation
Products, 519
Phenol-Methylene Condensation Pro-
ducts, 203
Phosphoric Acid and Hydrogen, 399
Plastic Compositions, 125, 182
Polymerisation Products of Butadiene,
181
Polymerisation Products of γ -Butylene
and its Homologues, 82
Potassium Carbonate, 581
Potassium Monophosphate, 581
Potassium Nitrate, 519, 581, 612
Propyl Cresols, 421
Pyridine Bases, 12
Quinoline Derivatives, 81
Red Lead, 182
Resins, Synthetic, 182, 249, 563, 612
Rubber, Synthetic, 56, 82, 272, 493,
581, 582
Rubber Substitutes, 57
Rubber, Vulcanising, 399
Salts of a Urea Derivative, 3
Silica, 612
Soaps, 541
Sodium Metaborate, 467
Solids and Liquids, Separating, 421
Substitutes for Linoleum and Rubber,
519
Sugars and Polyhydric Alcohols, Manu-
facture of, 520
Sulphonic Acids, 493
Sulphur from Alkali Metal Poly-
sulphides, Recovery of, 272
Sulphur, Pure, Production of, 81, 272,
422
Sulphuric Acid, 181, 330
Sulphur, Ferrie Oxide, and Metallic
Chlorides, 81
Sulphur, Metallic Oxides, and Metallic
Chlorides, 81
Sulphuric Esters of Carbohydrates, 82
Saponaceous Compounds, 57
Tetra-Hydronaphthols and their Deriva-
tives, 493
Thymol, 442
Thymol and its Isomers, 421
Tin, Titanium and Zirconium Oxides,
519
Triaryl Phosphates, 82
Urea, 519
Urea and Substitution Products, 32
Vacuum Distillation of Solids, 349
Vulcanisation Accelerators, 225, 467
Vulcanisation of Unsaturated Organic
Compounds, 56
Waxes, 519
Waxes, Esters, Amides, Acid An-
hydrides, Bituminous Composition,
329
Wetting Agents, 153, 273
Wetting and Emulsifying Agents and
Soaps, 124
Zinc Sulphide, 562

Q

Queries, C.A., 306, 327
Quinoline Hydrogen Peroxide (Schorn),
205

R

Rayon Production in 1929, 9
Refrigerant, A New Chemical, 395
Research, The Influence of Technique
on; Major E. A. Freeth, 436

- Research, An Anticipatory Poetic Allegory of, by "Meredithian," 245
Research and Industry; W. P. Dreyer, 5
Resins of Jalap, Podophyllum and Scammony, Official Tests for (Dott), 205
Rivers, Purification of, 465
Roads, Tar, The Development of, in Great Britain; W. E. Cone, 171
Royal Society of Arts, 178, 200, 216, 288
"Russia, About": by Sir Ernest Benn, 326
Russia, A German Chemist in, 173
Russian Match Industry Increases Participation in Danish Market, 567
- S**
- Safeguarding Duties on Imported Chemicals, etc., 7, 269, 326, 393
Salem Process, The Development of the, 75
Salt Union, Ltd., Annual Meeting of, 297
Scientific and Industrial Research, Report of the Department of, 144
Sewage Disposal, The Activated Sludge Process for, 78
Sewage Treatment Plant for U.S.A., 16
Shale Oil Extraction in Sweden, 209
Signposts, Leading, in Chemical Industry; Dr. E. F. Armstrong, 196
Silk, Artificial, and Cotton Unions Preparation of, for Printing, 287
Silks, Artificial, Effect of Swelling Agents on the Creasing of, 287
- Smoke Prevention, The Question of, 246
Society of Chemical Industry -
Birmingham and Midland Section, 94, 150, 269, 282, 347
Bristol Section, 246
Glasgow Section, 240
Liverpool Section, 78, 346
London Section, 26, 220, 346, 438
Manchester Section, 45, 148, 241, 345, 361
Yorkshire Section, 151
Society of Dyers and Colourists, 77, 196, 287, 324
Society of Glass Technology, 96, 245
Society of Public Analysts, 148, 247, 347, 456
Soda Ash and Caustic Soda, 199
Sodium Sulphate Deposit, 461
Sodium Sulphide in the United States, 20
Softening Agents and Nitrocellulose Lacquers, 480
Solvent Extraction Plant, Design and Operation of; James MacGregor, 598
Solvents Industry, A General Survey of the; Rex Furness, 594
Solvents: Their Manufacture and Uses; Major Denis J. Burke, 597
South African Market, 293, 507
Spain, Chemical and Allied Industries in, 202
Spanish Potash Deposits, Exploration for, 108
Spanish Tariff Change, 306
Spirit, White, Taxation of, 62
Standardisation, Chemical, 552
Standardisation of Tar Products Tests Committee, 284
Standard Oil Co., of New York and the Vacuum Oil Co., Merger of, 205
Steam Power and Heating, Combined, 465
Steam Trap Explosion, 459
Steatite and Porcelain Products, Ltd., 453, 455, 488
- Steels, Fatigue Failure of, 269
Still, Chemical, Dangers, 434
Submerged Combustion, 142, 559
Sugarcane Factory Effluents, 223
Sugar Industry, The World's, 23
Sulphuric Acid Manufacture in Canada, 500
Sulphuric Acid, Netherlands Trade in, 63
Sulphuric Acid Development, French, 282
Superphosphate Position in Australia, 295
Superphosphate Production, Current Spanish, 473
Surface Chemistry, The Industrial Implications of, 45
Swiss Chemical Industry, The, 296, 525
Synthetic Ammonia Enterprise, New German, 183
Synthetic Ammonia and Nitrates, Ltd., 173, 537
- T**
- Temperature, High, Superheating, 175
Textiles, Faults (Kershaw), 77
Timber, Method of Testing Small Clear Specimens of, 4
Tin, Programme of Research on, 24
Trade Returns for December, 1929, 49
Trade Returns for the Year 1929, 74
Trade Returns for January, 146; February, 244; March, 365; April, 462; May, 578
Trade, Chemical, 41, 164, 290, 259, 279, 359, 506, 571
Trade Publications, 305
- U**
- Unemployment and Work; Sir Ernest J. P. Benn, 411, 439, 464, 489, 511, 538, 557, 576, 593
- Unemployment, Wrong Views on, 259
U.S. Animal Glue Production, 590
United States Chemical Merger, 449
United States Chemical Trade, 508
United States Dyestuffs Production, 570
United States Tariff Revision, 438
- V**
- Vandyke Brown, B.S. Specification for, 243
- W**
- Warfare, Chemical, 78, 111, 116, 319
Warfare, Chemical, Major E. A. Froeth on, 314
War, Sir T. Holland's Plan to Prevent, 110
Water Pollution Problems, The Investigation of, 513
Water Softening Plant for Railways, 610
Water Softening, 220
Water Sterilisation, New Process of, 177
Water Treatment, New Development in, 205
Weed Eradication, Chemical, 170
Welding in Chemical Engineering, 47
White Spirit and Turpentine, Duty on, 487
Willard Gibbs Medalist for 1930, 172
Wood Oil, Methods of Preparing, in Paints and Varnishes, 400
Wood Preserving Association, British, 78
World Power Conference, Second, 490
- Y**
- Yorkshire Tar Distillers, Ltd., 198

